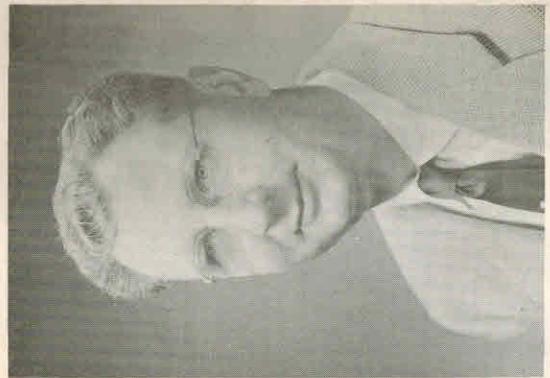


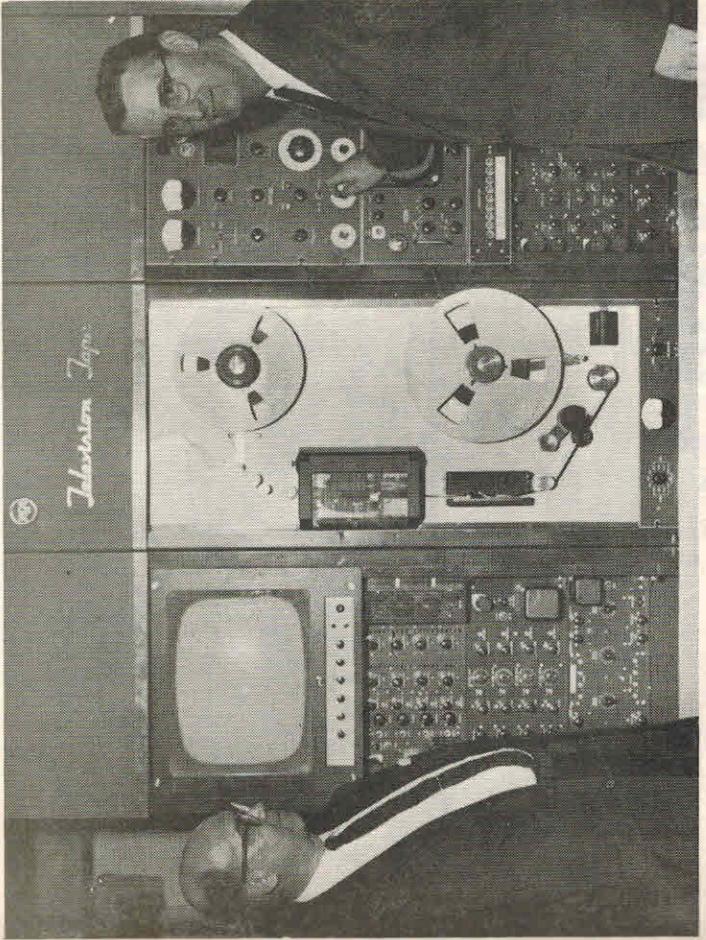
Gene
Van Sickle,
W9KJF

Features Ham gear in
new Finest Electronic
Supermarket with per-
sonal service.



SEPTEMBER 1961

PUBLISHED BY
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FOUNDED 1916



INDIANAPOLIS RADIO CLUB, INC.
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Indianapolis 20, Indiana

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Indianapolis, Ind.

On North East Side of Indianapolis
4131 N. Keystone Ave.

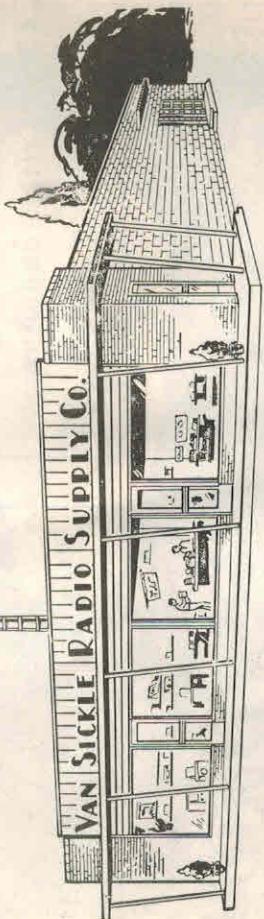
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HAM HEADQUARTERS

The Indianapolis Radio Club meets on the 2nd and 4th Friday of each month at the Indianapolis Park Board Building located at 29th and Harding Streets. Meetings start promptly at 8:00 P.M., Indianapolis time.

AMA-CHEWER STAFF

PRESIDENT	Bert Brouse 6995 Barrwill Drive	K9JSF CL 5-9282
EDITOR	Lee Easley 4219 Guilford	K9QDR AT 3-7494
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REPORTERS	R. Caskey D. McVicker R. Osterhous	W9DNQ W9JZV W9PSE
PHOTOGRAPHER	Frank Fitch	W9EJW
TECHNICAL ADVISORS	Fritz Manning Cliff Singer	W9VPN W9SSWD

* * * * *

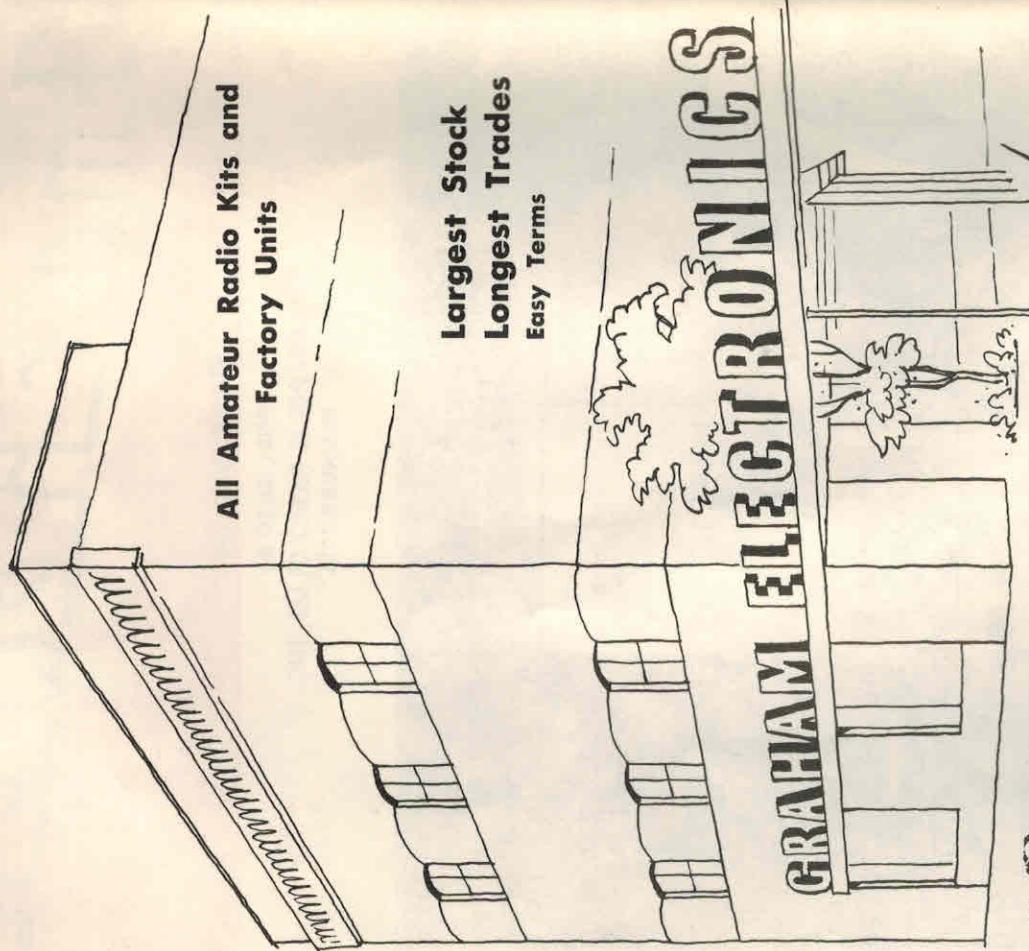
Ama-Chewer is published monthly by and for I.R.C. and all Amateurs in this area. Non-Members of I.R.C. may subscribe at the rate of \$1.00 per year.

Publication is on the 3rd Friday of each month, with all news items and ads due no later than the 1st Friday of each month.

Ham-Ads (5 line limit) are free to members and subscribers. Others may use this facility at the rate of 50 cents per ad.

Ama-Chewer welcomes the forwarding of information on coming events of other clubs in the area for publication in the program section.

* * * * *



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PLENTY OF FREE PARKING

October 27th Ted Anderson, Field Engineer for Tek-Tronix, Inc.
"Interesting Applications of Oscilloscopes"
W9BOG - R. C. (Bob) Wild, will demonstrate a 20 meter "Swan SSB Tranciever. This will be an on the air demonstration.

* * * * *

PROGRAM REVIEW

By the appearance of the large and energetic group at the first Fall meeting of IRC, everyone is ready for a busy year for their ham radio activities. After Bert Brouse, K9JSF covered the details of the business meeting and got things started in general, Frank Fitch, W9EJW took over the remainder of the meeting. Frank showed many of the excellent color slides he had taken at various ham groups this Summer such as: Turkey Run, Kokomo Hamfest and IRCC Picnic at Garfield Park. Frank asked the group to call out the names of the people they recognized as the slides were shown which made the program much more interesting. Elmer Taflinger, W9GRN gave a very detailed discussion of the statues which Western Electric has donated to Indianapolis, and which are being erected at Holiday Park. Taflinger has done a tremendous amount of work on this project and we can all be proud to have such a fellow ham as a member of the Indianapolis Radio Club.

* * * * *

FOR SALE

The speaker at our last meeting of the month, was the Chief Engineer of Esterline Angus Company, Dick Judkins. Mr. Judkins explained the basic design of a meter and how the parts of a common meter work. He showed the proper procedure for zeroing a meter and how the jewels and pivots acting as bearings let the moving coil move in the core of the magnet. He compared the movement to a small motor.

After passing different movements around the room to show us clearly how the moving coil was set in the magnet and what action the springs had on it, our speaker told us some of the common mistakes made by almost everyone. For those of you who didn't make this meeting, here are just a few:

(continued on Page 3)

Look out for the iron vein type meter. This is a cheaper type of AC voltmeter and is good just for measuring your line voltage. An easy way to tell this type meter, is by its scale. They are usually condensed at the low end and the meters are very critical to frequency. The iron view type is just fine for measuring 60 cps but when you try to measure audio frequencies your errors will range from 20% on up.

* * * * *

Some small meters read the RMS voltage and others read the peak voltage. As you know, the peak voltage is 1.4 times higher than the RMS voltage. Mr. Judkins then gave a brief discussion on watt meters. In closing, he said that before you take up your meter, make sure that you know what you are measuring and what your meter is reading.

* * * * *

COVER STORY

Chief Engineer Robert Flanders (right) and Technical Chief Bob Brockway adjust one of the two RCA Television Tape Machines at the Channel 6 studios. WFBM-TV has used the tape machines for nearly two years and everyone at the Station now wonders "How did we ever get along without them". During the taping of the 500 mile race activities last year, enough tape was used to stretch around the famed oval three times.

* * * * *

Fifty foot Spartan self-supporting auger base tower. \$50.00
One Ham CDR Rotor (?)
One Mosley Tri-Bander \$45.00
One 6 element Tel-Rex 6 meter beam \$10.00
One 10 element Hi Gain 2 meter beam \$10.00

Contact Harry Robertson, K9QHN, 1 1/2 miles West of Plainfield. Telephone TE 9-2198.

* * * * *

With the arrival of Fall, and following close behind the Winter season, there are many familiar voices heard on the Amateur bands again.

We wish to take this opportunity to thank Dick Judkins for the very fine lecture on meters on our program meeting September 29th.

I would like to take the opportunity at this time to repeat what the programs are for our October 27th and November 10th meetings.

On October 27th, we have the extreme pleasure of welcoming Ted Anderson, field engineer for Tek-Tronix, Inc. Ted has kindly consented to bring along a couple of instruments and show us how to operate same. He will also show us some fancy tricks which can be performed on 'scopes. This will be a very fine meeting and will also be very informative and fulfill the requests of our many club members who own 'scopes. Don't miss it!

On November 10th we will have R. C. (Bob) Wild who will give an on the air demonstration of the new 20 meter "Swan SSB Tranciever". This little package weighs only 11 lbs. and it has been reported that it does a real fine job on SSB.

We made our yearly trip to the Cincinnati, Ohio stagfest on September 23rd and it was a pleasure to have Fred Billman, K9KKF and his wife Rosalie, K9KKG to accompany my XYL, my sister Catherine Brouse and myself on the trip. We counted twenty-five local hams present at the gathering. There were probably many more in the crowd of approximately 1,500 people and this made it a little hard to see everyone.

It is again time for FCC exams at the Federal Building here in Indianapolis. They are scheduled as follows:

Commercial Exams - Nov. 1 6th - 9:00 A.M.
Amateur Exams Nov. 1 7th - 9:00 A.M.

There will also be announcements made at club meetings and in future issues of AmaChewer concerning these times and places.

(continued on page 5)

Don't forget future meetings of IRC. You might miss something very interesting.

Your curly haired "Pres."
Bert Brouse, K9JST

* * * * *

IRCC FALL MEETING

The Fall Meeting of the Indiana Radio Club Council was held at Butler University with twenty of fifty-three affiliated clubs present.

Four of the Indianapolis clubs were there, RCA, Western Electric Amateur Radio Club, Central Indiana Mobile Radio Club, Inc., and our own IRC.

Our members present were: CYQ, SWD, IXD, LZJ, SUW, CRS, PSE AND JJC. Most of you probably know Cliff, W9SWD, is going to take a nap and will resign as SCM this month. Don Holt, W9FWH of Anderson is our new SCM. The new officers elected for a two year period of IRCC are:

Chairman	Jerry Smiley
Vice-Chairman	Clarence Vaughn
Secretary	Doris Singer
Treasurer	Betty Timberlake
Directors:	Bill Siebenmorgen Art Evans John Jamey Cliff Singer

Bison, the IRCC paper, is a monthly bulletin, \$1.00 per ten copies, and subscriptions may be sent to:

Bill Siebenmorgen, W9IHO

The new Bison editor is Judy Ronleo, daughter of W9RVM. Judy is a graduate of St. Rose Academy of Vincennes and majored in journalism.

Watch out Lee!

(Ed. note; Like crazy man!)

Dear Amachewer:

Here is a little report on the amateur radio club at the Indiana School for the Blind. As you all know, Bob Caskey and many of you other OTs started it some time back. I was a late comer, and at the time, a Novice. At this point I will add that I was going to school at Tech, trying to learn enough from Johnny Jones to pass my General. Bob Caskey informed me of the I.R.C. activity at the Blind School and I was happy to participate because I knew the best way to learn something was to teach it. That is just what I did. The result was I passed my General and I was some help to the blind hams.

This is a new year and we hope that we have learned more of the needs and possibilities of the blind hams. Last year, Bob with the I.R.C. made great strides with the Blind School Radio Club. We tried hard to get three General class tickets out there, but just didn't make it. This year we are not going to set our goal so high. We intend to work toward Technician tickets first. This naturally means we will have to find a good V.H.F. station for the kids. You meter reading hams might keep this in mind next time you look at that old transmitter sitting on the shelf. Some progress has been made in this direction, through personal contributions from many hams and material aid from others. The Club should soon have a real nice rig on the air.

The first meeting of the Blind School Radio Club was Wednesday the 10th. There were 15 new members and one OT, Steve Speicher. Bob Caskey and I laid out the plan we will follow this year. That is, trying to get some "techs" on the air. A great deal of interest was shown and Bob and I now have our hands full trying to answer all the many questions and trying to learn all the new names.

In closing, I would like you all to know that these kids are all very, very interested in our hobby and only through your continued interest in their Club and them can we hope to accomplish our goals.

Jim Reese, K9YKH

* * * * *

If you are having a hard time getting your ten thumbs into those hard to reach places inside the chassis of your rig, hold on to your hats, as things are going to get smaller.

As an example, RCA has developed a transistor which is only a few thousandths of an inch thick. The active material used in its manufacture is cadmium sulfide which is deposited in thin layers between successive layers of metal on a glass plate. These layers when heated in successive steps in a vacuum, turn to vapor that is collected by condensation on the glass plate.

By using masks the patterns can be formed to provide the electrical contacts needed to operate the transistor. This same process also can be used to produce various patterns of connections among many transistors to complete a desired circuit at the same time that the transistors themselves are being made.

* * * * *

Several companies are manufacturing conical monopole antennas with a frequency range from 2mc. to 33 mc. They have an extremely constant input impedance over a wide frequency range and the azimuth radiation pattern is essentially circular. From what we have been able to ascertain, this type of plumbing, properly modified to operate in the 50mc. VHF portion of the spectrum, would be an exceptional project for some of our more industrious local antenna experts. The manufactured item can be completely assembled and erected in less than one hour. (Ed. Note: Who says I ain't no college student?)

* * * * *

A few issues back, we made mention of the new Navy VHF station in Maine, operating at 2 million watts. We would like to add that this station, NAA, isn't exactly what you could operate on pocket change.

The station has two separate arrays, each with a center tower 980 feet high, six intermediate towers at 875 feet, and six outer towers at 800 feet with the array covering about 357 acres. The ground mat buried at twelve feet, uses one million pounds of copper wire.

The station's power generating capacity is 13,000 kilowatts and it takes approximately three million gallons of fuel oil a year to keep it going.

(continued on page 8)

continued from page 7

Aren't you glad you are running 25 watts??

(Ed. Note: For more information on this "Do it yourselfers Delight" see October QST magazine.)

* * * * *

Have you mailed in your application for your 1962 Ham autoplates? Every ham should take part in this, as it "pays to advertise".

K9IUH
* * * * *

CIVIL DEFENSE OPERATION

As many of you know, from participating in the operations, there is an amateur operation in support of Civil Defense operation in Marion County. The main operator in this operation is K9SVB, Dick Andrews. Dick has been largely responsible for the recruiting organization and continued operation of the amateur section in support of the Civil Defense Police patrols on Friday nights.

On the evening of October 14th, Dick activated the Marion County Civil Defense Amateur Radio Net on 50.55 mc. The initial check-in on this net was 14 stations in addition to K9SVB, who acted as net control station. Those checking in were: K9AHD, K9BAM, K9BAM, K9CRF, K9CXS, K9CXQ, K9OFG, K9QXQ, W9SRT, K9UTW, K9VPE, K9VPE, K9YOR and K9YOR. On the following Wednesday evening, October 20th, the following stations checked in: K9AHD, K9DAM, K9CRF, K9CXS, W9JZB, K9LVQ, K9MKU, K9RFY, K9SFU, W9SRT, K9YBZ, in addition to K9SVB, the net control station.

This Wednesday evening net meets at 7:00 P.M. in the hour preceding the Hendricks County AREC net, and is in addition and in support of the regular operation of Civil Defense police patrol.

Stations that have participated in the patrol operations are: K9SVB, K9BAM, K9BAM, K9CRF, K9CXS, K9QXQ, K9YOR, W9SRT, K9HBA, K9UED, K9LVQ, K9LVQ, K9CRF, K9YKH, K9SUV, K9XQR, K9QDR and K9ZHR. It is worthy to note that the first four of these stations have accumulated more than five patrol operations to their credit.

(continued on page 9)

continued from page 8

As Staff Director in charge of this type of operation, the Indianapolis and Marion County Office of Civil Defense, it gives me a great deal of pleasure and satisfaction to see this many amateur radio stations and operators turn out, supply their own equipment and vehicles, for this type of public service. I feel that these operators are to be highly commended for their spirit and sense of public service.

I hope that more and more operators will feel the need for this type of service and realize that their participation is one of the ways to satisfy the "PICON" responsibilities of their amateur license.

D. J. McVicker, W9JZV
Deputy Director, Communications
Indianapolis and Marion County
Office of Civil Defense

* * * * *

NEW MEMBERS

It is with a great deal of pleasure that we welcome the following new members into the club:

Ward L. Studor	N/C
Frank R. Owens	K9MWG
Ray Andrews	K9DUR
Don Litwiler	W9MHP
Ruth Litwiler	K9MZV
Dick Petraits	W9BFH
Paul Gregg	W9POC
Wesley Dyer	K9IBA
Dan O'Connell	K9VQI
Mel Schrader	K9JKU
Dick Judkins	N/C
Bob Creviston	K9VMG
Ed Blanck, Sr.	K9LHQ
Bob Heaton	K9RDL
Les Ettinger	K9BPW
Vern Swigert	K9YBZ
Tom Segal	K9DHE (Assc.)
Earl Lunday	K9CCGQ
Betty J. Lunday	K9CGR

Big news at the Wolfia residence -- Hank is really off the air - Gretchen is now K9BHH - has her General - not just a Tech but a genuine General and we hear it was pretty exciting September 26th when the mailman came and rang the doorbell and left that envelope from the FCC.

* * * * *

Dave - K9FZJ also received his General license recently. The new rig will be Globe Chief DeLuxe, a SX 16, Home Brew power supply and 80 and 40 meter dipoles. It is interesting to note that Dave already has DX fever and that 20 and 10 meter dipoles will soon be in the air.

* * * * *

Another new General - Les, K9PHF, is still on C.W. and we have no further information as yet.

* * * * *

In the meantime, down at Logansport, Leroy, K9WET, has been bitten by that old Home Brew bug. Sorry, Leroy, but no one has discovered a cure yet.

* * * * *

Over heard on 6 meters the other night was a QSO between W9MNA, Frank and K9JSF, Bert. If we heard correctly, Frank is sporting a new Poleytronics 6 meter transmitter.

* * * * *

Several new applications have been received for membership in the Indianapolis Radio Club. We are well over the 100 member mark now. Don't forget to bring a new prospective member or visitor to Club meetings. All are welcome. (See list of new members on page 9)

* * * * *

Several weeks ago, one of our Club members spent many hours putting a new Elmac Transmitter, Receiver, and power supply in his 1959 Chevy station wagon. Upon good authority, we understand the gear has been removed and is to be installed in a new white Chevy wagon with red leather upholstery. Some bald-headed guys think they get younger everyday.

* * * * *

Ward Studor, a visitor at our last Club meeting and also an applicant for membership, is interested in talking to someone about code practice in the evenings. His address is:

3907 North New Jersey.

* * * * *

The Indianapolis Radio Club would like to thank those amateurs that were present on September 22nd for their donations to the Blind School Radio Club Fund. This money is being used for the purchase and construction of amateur radio gear and the teaching of radio fundamentals to the blind students. (Ed. Note: Be sure and read Open Letter to AmaChewer from Jim Reese elsewhere in the paper.)

* * * * *

If you think you have TVI problems, you should read a recent issue of the Saturday Evening Post on RFI and complaints developing from Radio Frequency Interference. We are happy to notice that there was nothing detrimental to the ham in it.

* * * * *

GREEN STAMPS

In the recent issue of a trade magazine, we saw an article about a company that gave its employees green stamps based on departmental efficiency and production. Some deal, huh?

* * * * *

Another old timer was heard in QSO with K9JSF. Using one of those new Clegg 99'ers was Gene VanSickle, W9JKF. Welcome to 6, Gene, hope to hear you on more often.

* * * * *

DO you have trouble transposing mmf to mf and vice versa
--be honest-- is 250 micro micro farads .0025 or not? Well
for all you slow birds , watch for the Handy Dandy Chart
next month.

PUZZLE DEPARTMENT

What are the dimensions of the square plates of a 1 farad
condenser with 1/32 inch spacing and using air for dielectric?
Send your answer to W9JJC. The correct answer with the
earliest postmark is the winner. Include the formula you
used. (Big thing, isn't it?) Prize - Surprise.

MCCC GOES DX

The following was received from 1T1-AGA via W9UTQ:

"----have worked W9THM, NH, OF, SFR, SWR, TKV, ZTV,
and UTQ, also K9JNJ, CHY, CLD, COS, DJN, JWF, ZEL,
JTQ, and UHH for MCCC. Need eight more in Marion
County and would like for DX operators there to look for me;
1500 - 1700 GMT CW 28, 21 and 14 MC
2200 - 2400 GMT CW 21, 14 and 7 MC."

Giuseppe will be looking for you and if any of you local CW
men want to drop him a card for a "sked";

Giuseppe deLucs
Via Gen. Di Giorgio 18
Palermo, Italy

(Ed Note: Check with W9JJC or K9IUH)

ECHO I

Echo I satellite crossed the equator for the 4,481st time on
August 12th - its first birthday. (Over 115,000,000 miles.)
Have you noticed the Echo transit times are published on the
front page of the News?

You may have noticed changes in the Ama-Chewer staff, on
page 1, and that we have a new editor. Our original old work
horse ham editor, Ben Marcel-K9IUH, has been jockeyed into
a position with "MaBell" where he has just run out of time.
A page of thanks and appreciation couldn't wrap up our senti-
ments on Ben's work in getting AmaChewer in its present po-
sition.

He was loaded with ideas and suggestions and put them in-
to effect. We have regretfully accepted Ben's resignation
as editor and understand the necessity for it. A big load
of appreciation for your help and direction, Ben.

WANTED: 20-50 watt public address amplifier with or with-
out turntable, mike and speakers.

Jerry Lucas, W9AJP
AX 1-0372

WANTED: K9WSV, Ray Gifford wants a 2 meter linear for a
Gooney III. Also talk to Ray if you are interested
in buying a complete VHF station as his may soon
be for sale.

CALL BOOKS

We have about eight Call Books left and we are sure there
are a few left at the radio supply stores in town.

SPLATTER

W9JJC, Alvey, has a radio teleprinter and a converter
ready for the smoke test.

NOTEWORTHY NEWS
QSL BUREAU

continued from page 14

Julian Oberg, W9DSO, is relinquishing control of the W9-K9 QSL Bureau and Ray Birren, W9MSG, of Chicago is replacing him. We received the following note from Ray:

There are almost 7000 foreign QSL cards being held by the staff of W9-K9 call area QSL Bureau. These cards belong to over 2000 Radio Amateurs in Illinois, Indiana and Wisconsin, who either don't know to claim them or have lost interest in Ham Radio.

If you have ever worked a Foreign Ham, there is probably a card waiting for you for the asking. Send for it before the files have to be cleared out of necessity.

Send a large 4 x 7 or 5 x 7 self-addressed, stamped envelope, printing call letters at least 1/4 inch high in upper left hand corner of envelope. Large envelopes are needed to keep from having to fold and possibly damage the large foreign style cards. Better yet, send in a supply of properly prepared envelopes, so you will receive your cards at monthly intervals.

The QSL Bureau is operated by Ray Birren, W9MSG, 702 Spring Road, Elmhurst, Illinois. Send your envelopes to him or the aide listed below who handles your group. This is a free service of the American Radio Relay League, sponsored in the 9th call area by Chicago Radio Club Council.

A and B Calls	Julian Oberg 2601 Gordon Dr., Flossmoor, Illinois	W9DSO	Y and Z Calls	Bill and Verna Franz, K9KYF and K9LUI
C and D Calls	Ed Goodboult 134 Forest River Forest, Illinois	W9DWQ		437 Anthony Glen Ellyn, Illinois
E and F Calls	William Gago 2432 S. 19th	W9FVU		* * * * *
G and H Calls	Ed Goodboult 134 Forest River Forest, Illinois	W9DWQ		
I and J Calls	George Nesbed 2429 S. Harvey Berwyn, Illinois	W9LQF		
	Joe Schroeder 2120 First Glenview, Illinois	W9JUV		

(continued on page 15)

K and L Calls

Don Messmer, K9LSM
852 Bruce
Flossmoor, Illinois

M and N Calls

Gladys Jones, W9MYC
8870 County Line Road
Hinsdale, Illinois

O and P Calls

Fred & Lynn Stedman
K9IWR and K9IWS
10 Robin Hood Drive
Hinsdale, Illinois

Q and R Calls

Mary Alice Koctur, K9BWJ
5522 Garfield
Hinsdale, Illinois

S Calls

Julian Oberg, W9DSO
2601 Gordon Drive
Flossmoor, Illinois

T and U Calls

William & Ginny Davis
W9UKY and K9DXK
127 S. Lind
Northlake, Illinois

V and W Calls

Robert Adair, W9RRX
17230 S. Olcott
Tinley Park, Illinois

Bill and Verna Franz,
K9KYF and K9LUI

437 Anthony
Glen Ellyn, Illinois

* * * * *

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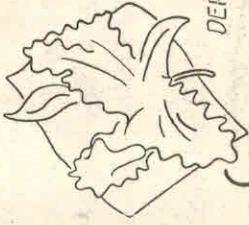
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